



UNITED STATES PATENT AND TRADEMARK OFFICE

cm

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/534,701

06/03/2005

Maurice Hamoinon

6543/PCT

8698

6858 7590 04/02/2007
BREINER & BREINER, L.L.C.
P.O. BOX 19290
ALEXANDRIA, VA 22320-0290

EXAMINER

CHUNG TRANS, XUONG MY

ART UNIT

PAPER NUMBER

2833

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
--	-----------	---------------

3 MONTHS

04/02/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/534,701

Applicant(s)

HAMOIGNON, MAURICE

Examiner

Xuong M. Chung-Trans

Art Unit

2833

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 January 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 4-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 4-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 2833

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 12, 2007 has been entered.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Camps et al. (USPN 5,934,930) in view of Sheynis et al. (USPN 6,683,789).

As per claim 4, Camp discloses a cable connector comprising: a housing made up of at least two components (6, 7) including a first component (6) and a second component (7) which are movable to come into contact with each other about an axis of rotation for electrically conducting connection, when present therein, of a flat cable (1) having a plurality of bunched conductors with at least one round cable (4) composed of a plurality of bunched conductors, wherein the first component is adapted to receive conductors of the at least one round cable with insulation thereon removed to provide bared conductors laterally separated from each other in a connection section provided

Art Unit: 2833

inside the first component, and the second component is adapted to receive the flat cable, wherein electrically conducting contacting elements (32, 33, 34) to which the conductors of the round cable connect and which include cutting tips for perforating insulation of the conductors and embedding in strands of the conductors of the flat cable. Camp does not explicitly disclose a closing lever coupled at a distance from the axis of rotation with the first component, the closing lever including a closing claw which is engagable with a stationary cam on the second component in such a way that the at least first component and second component move in a direction of closing to contact each other for reciprocal closing when the closing lever is actuated and to press the cutting tips into the conductors of the flat cable thereby connecting the flat cable and the round cable together upon actuation of the closing lever. Camp does disclose the closing mechanism (7, 23,26,6,24,25) that locks the connector and connects two conductors (col. 5,lines 4-16). Furthermore, the use of a closing lever is well-known in the art to facilitate connection operations of the first connector element with the second connector element, and also applying some force to lock the connector in a connected position. Sheynis disclose such a closing lever (26). It would have been an obvious substitute of art to replace the closing mechanism of Camp with the closing lever of Sheynis so that to facilitate connection operations of the first connector element with the second connector element, to lock the connector in a connected position and to press the cutting tips into the conductors of the cable to connect two cables together and thereby the connection can be carried out with low insertion force.

As per claim 5, Sheynis discloses that the closing lever (26) has a U-shaped configuration and extends across one of the at least two components which carries the lever, and sides of the closing lever are coupled to the one of the at least two components (6, 7) and each side includes a closing claw (24) which operates in conjunction with an associated one of the stationary cam 35.

As per claim 6, Camp discloses that the first component 6 comprises a cover component and an intermediate component (8) positioned below the cover component for receiving conductors of the round cable (4) which are not bared and which are to be connected, wherein the contacting elements (32, 33, 34) have cutting tips, which extend upward and downward for penetrating strands of the round cable (4) and the flat cable (1), are mounted and retained in the intermediate component 8 such that the cutting tips project from two surfaces of the intermediate component opposite the cover component such that when sandwich-like assembly of the cover component, the intermediate component, and the second component is provided by the closing lever moving the first component and the second component into contact with each other, electric connection is automatically established between the cover component, the intermediate component and the second component.

4. Applicant's arguments filed April 17, 2006 have been fully considered but they are not persuasive.

Applicant argued that the combination of Camp and Sheynis does not provide a cable connector with a closing lever that both connects two conductors and locks the

Art Unit: 2833

connector. The examiner respectfully disagrees because the combination of Camp and Sheynes do provide a cable connector with a closing lever that both connects two conductors and locks the connector.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xuong M. Chung-Trans whose telephone number is (571) 272-2002. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571) 272-2800 extension 33.. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'Xuong Chung-Trans', with a long horizontal flourish extending to the right.

Xuong Chung-Trans